

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. **(Currently Amended)** A method for determining the actuator energy required for different injection types of an actuator of an internal combustion engine, the method comprising the steps of:

applying a control signal to the actuator such that said control signal generates an actuator signal;

setting an injection parameter of the internal combustion engine such that said actuator signal is generated at a specific stored time, wherein a first injection ~~type~~ in a combustion cycle is deactivated in order to determine an actuator energy ~~of~~ **required for** said ~~type~~ **first injection** from a second injection ~~type~~ **in said combustion cycle**.

2. **(Currently Amended)** A method according to Claim 1, wherein the first injection ~~type~~ is reactivated in order to determine an actuator energy required for the second injection ~~type~~.

3. **(Currently Amended)** A method according to Claim 2, wherein ~~a last~~ **the first** injection ~~type~~ is ~~an a~~ **advance-pre** injection and the second injection ~~type~~ is a main injection.

4. **(Previously Presented)** A method according to Claim 1, wherein the internal combustion engine is in a stationary operating state.

5. **(Previously Presented)** A method according to Claim 1, wherein an injection pressure of the injectors is changed after each control process.

6. **(Currently Amended)** A method according to Claim ~~12~~, wherein the main injection is changed in order to generate the actuator signal.

7. (Previously Presented) A method according to Claim 1, wherein the control signal is applied to one injector at a first point in time, and the actuator signal is generated at a second point in time after a specific time.

8. (Previously Presented) A method according to Claim 1, wherein, in an internal combustion engine with several injectors, the difference in two points in time of one injector is the same as the respective difference between two points in time of another injector.

9. (Previously Presented) A method according to Claim 1, wherein at least one of the following variables is selected as an injection parameter: loading time of the control signal, amplitude of the control signal, control duration and actuator energy.

10. **(Currently Amended)** A system for determining the actuator energy required for different injection types of an actuator of an internal combustion engine, comprising:

means for applying a control signal to the actuator such that said control signal generates an actuator signal; and

means for setting an injection parameter of the internal combustion engine such that said actuator signal is generated at a specific stored time, wherein a first injection ~~type~~ in a combustion cycle is deactivated in order to determine an actuator energy ~~of said type~~ required for said first injection from a second injection ~~type~~ in said combustion cycle.

11. **(Currently Amended)** A system according to Claim 10, wherein the first injection ~~type~~ is reactivated in order to determine an actuator energy required for the second injection ~~type~~.

12. **(Currently Amended)**A system according to Claim 11, wherein ~~a last~~the first injection ~~type is an advance pre-~~injection and the second injection ~~type~~ is a main injection.

13. **(Previously Presented)**A system according to Claim 10, wherein the internal combustion engine is in a stationary operating state.

14. **(Previously Presented)**A system according to Claim 10, wherein an injection pressure of the injectors is changed after each control process.

15. **(Currently Amended)**A system according to Claim ~~10~~12, wherein the main injection is changed in order to generate the actuator signal.

16. **(Previously Presented)**A system according to Claim 10, wherein the control signal is applied to one injector at a first point in time, and the actuator signal is generated at a second point in time after a specific time.

17. **(Previously Presented)**A system according to Claim 10, wherein, the internal combustion engine comprises several injectors, and wherein the difference in two points in time of one injector is the same as the respective difference between two points in time of another injector.

18. **(Previously Presented)**A system according to Claim 10, wherein at least one of the following variables is selected as an injection parameter: loading time of the control signal, amplitude of the control signal, control duration and actuator energy.

19. **(NEW)**A method for determining the actuator energy required for different injections of an actuator of an internal combustion engine, the method comprising the steps of:

applying a control signal to the actuator such that said control signal generates an actuator signal;

setting an injection parameter of the internal combustion engine such that said actuator signal is generated at a specific stored time, wherein a pre-injection in a combustion cycle is deactivated in order to determine an actuator energy for said pre-injection from a following main injection in said combustion cycle.